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Digital imaging system and file format for storage and selective transmission of processed and unprocessed image data

KA Parulski... - US Patent 6,587,119, 2003 - Google Patents

... (45) Date of Patent: May 20, 2003 (54) DIGITAL IMAGING SYSTEM AND FILE FORMAT FOR STORAGE AND SELECTIVE TRANSMISSION OF PROCESSED AND UNPROCESSED **IMAGE DATA** (75) Inventors: Kenneth A. Parulski, Rochester, NY (US); J. Scott Houchin ...

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Image format for storing digital images and including multiple application segments

KA Parulski, J Ward, GE Lathrop... - US Patent ..., 2001 - Google Patents

... marker segment to store ancillary **data** and a **reduced**-resolution "thumbnail" **image**. These **image** formats include JFIF, defined in "JPEG File Interchange Format Version 1.02 Sep. 1, 1992 C-Cube Microsystems", the JPEG compressed ver- sion of **Exif** (Exchangeable **image** ...

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Metadata practices for consumer photos

J Tescic - Multimedia, IEEE, 2005 - [ieeexplore.ieee.org](#)

... at Shawn's wedding;" or a full photo description, such as "Mom, Dad, Uncle Peng, and his girlfriend at the Empire State Building, summer 2005." Searching these files is then **reduced** to the ... Efforts in **image** metadata standardization Besides **EXIF** and IPTC ...

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[\[PDF\] from gunadarma.ac.id](#)

System on a chip for digital still camera

S Okada, Y Matsuda, T Yamada... - ..., IEEE Transactions on, 1999 - [ieeexplore.ieee.org](#)

... v Blockscan The RISC CPU transforms moving **image data** to avi file format (open DML conformity) or still images to **Exif** file format, merging it with sound (ADPCM). ... This allows access time for large **data**, such as moving **image** files, to be significantly **reduced** (from ten ...

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Remote system for image storage and search

E imaeda - US Patent 7,075,573, 2006 - Google Patents

... Details of the standard for **Exif** are prescribed in the standards JEIDA-49- 1998 also ... method which compresses **image data** so that the amount of **data** is **reduced** to about Vio ... In the JPEG compression method, blocks of **image data** in predetermined two-dimensional regions are ...

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Method and apparatus for compression coding of image data representative of a color image and digital camera including the same

K Ito - US Patent 6,144,763, 2000 - Google Patents

... 7, 2000 [54] METHOD AND APPARATUS FOR COMPRESSION CODING OF **IMAGE DATA** REPRESENTATIVE OF A COLOR **IMAGE** AND DIGITAL CAMERA INCLUDING THE SAME [75] Inventor: Kenji Ito, Asaka, Japan [73] Assignee: Fuji Photo Film Co., Ltd., Kanagawa ...

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Electronic camera for processing image segments

GE Lathrop - US Patent 6,288,743, 2001 - Google Patents

... A **reduced** resolution thumbnail **image** is generated along with a TIFF header (step 108) and ... This **Exif** application marker includes the TIFF thumbnail **data** and other TIFF tags, for example ... The color **image data** may also be converted into JPEG standard color space (YCC CCIR ...

[Cited by 17](#) - [Related articles](#) - [All 2 versions](#)

Aggregation of reduced-sized images

ML Hess... - US Patent 7,418,483, 2008 - Google Patents

... The **image** to be included in the publication **data** is retrieved from the storage location identified by the location **data**. A **reduced**-size **image** is generated using the retrieved **image** and the **reduced**-size **image** is aggregated with further **reduced**-size images for presentation at a ...

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Image information recording medium and image processing system generating the recording medium

N Nakajima - US Patent 6,128,038, 2000 - Google Patents

... In the case of **Exif** tag information, compression mode information upon recording **data** in a ... a laboratory to deal with a file for generation or reproduction thereof will be **reduced**. ... for storage on a computer-readable recording medium, the file comprising: **image data** obtained by ...

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Digital imaging system and file format for storage and selective transmission of processed and unprocessed image data

KA Parulski... - US Patent 7,170,552, 2007 - Google Patents

... 30, 2007 DIGITAL IMAGING SYSTEM AND FILE FORMAT FOR STORAGE AND SELECTIVE TRANSMISSION OF PROCESSED AND UNPROCESSED **IMAGE DATA** Inventors: Kenneth A. Parulski, Rochester, NY (US); J. Scott Houchin, Rochester, NY (US) Assignee: Eastman ...

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Image tagging for post processing

JJ Feldis III - US Patent 7,110,028, 2006 - Google Patents

... 60 Another digital camera standard, **Exif** Reader, available on "http://www.takenet.or.jp/~ryuui/minisoft/exifread/en-glish/", provides a numerous TIFF/EP tags that may be attached to the ... For example, in other implementations, the original **image data** may be **reduced** to a ...

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Electronic image capture device and image file format providing raw and processed image data

WE Prentice, H Yamagata... - US Patent 7,453,498, 2008 - Google Patents

... US 7,453,498 B2 Sheet 8 of 10 TIFF HEADER I s- 502 IS 1 504 506 i IFDO JPEG INTERCHANGE FORMAT POINTER **EXIF** IFD POINTER i5 520 IP PAR AM IFD POINTER SUB IFD POINTER NEXT IFD LAST IFD POINTER MAIN **EXIF/JPEG DATA** THUMBNAIL **IMAGE** 516 > 5 ...

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JPEG compatible image file format using multiple application segments

KA Parulski, J Ward, GE Lathrop... - US Patent ..., 2007 - Google Patents

... marker segment to store ancillary **data** and a **reduced**-resolution "thumbnail" **image**. These **image** formats include JFIF, defined in "JPEG File Interchange Format Version 1.02 Sep. 1, 1992 C-Cube Microsystems", the JPEG compressed ver- sion of **Exif** (Exchangeable **image** ...

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Adjustment for output image of image data

Y Nakami... - US Patent 7,301,566, 2007 - Google Patents

... 27, 2007 Sheet 4 of 9 US 7,301,566 B2 **Exif** IFD Tag name Version Tag **Image data** ... amount is a positive correc- tion amount, the determined contrast correction amount is **reduced** as the exposure correction value is increased, and the contrast of the **image data** is adjusted ...

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Adjustment for output image of image data

Y Nakami - US Patent 7,511,853, 2009 - Google Patents

... X SOI X APP1 103-^ 104^ APP2 DQT 105-x X DHT 106-^ X DRI 107- ^ SOF 108- ^ 110-^ SOS **Image Data** GD 109-x X EOI APP1 Marker APP1 Length **Exif** ID Code Oth IFD **Exif** IFD 1st IFD Thumbnail **Image Data** .1021 1022 TIFF Header V1023 V 1024 Page 6. ...

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Color image capturing system with antialiasing

RJ Motta - US Patent 6,850,795, 2003 - Google Patents

... and undesirable artifacts such as color fringing at the edges of the reproduced color **image** are **reduced**. ... The analog signals from the **image** sensor 18 are serially fed to a gain control circuit 22 ... as well as a JPEG file format 65 conversion component 32 and an **EXIF** file format ...

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Imaging apparatus with communication function, image data storing method and computer program

H Koyama... - US Patent 7,130,394, 2006 - Google Patents

... 31,2006 (54) IMAGING APPARATUS WITH COMMUNICATION FUNCTION, **IMAGE DATA** STORING METHOD AND COMPUTER PROGRAM (75) Inventors: Hirohisa Koyama, Tachikawa (JP); Shoichi Nagatomo, Fussa (JP) (73) Assignee: Casio Computer Co., Ltd., Tokyo (JP) ...

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[PDF] Color image quality on the Internet

S Sösetrunk... - Internet Imaging V, 2003 - Elsevier

... Additionally, **image** metadata as available with some file formats (eg **EXIF**, JPEG2000) can also be used. ... It could be applicable in a **reduced**-reference framework where the colorfulness of the original **image** is known. Page 5. 5. **IMAGE QUALITY PREDICTION** ...

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[\[PDF\] from pau.edu](#)

Image display system, image processing apparatus, and method for displaying image data

M Niiawa - US Patent 7,042,500, 2006 - Google Patents

... Each of the frames has tag information, high-resolution **image data** (640x480 pixels) compressed by a JPEG method, and thumbnail **image data** (80x60 pixels). Each frame may be treated as an **image** file of, for example, an **EXIF** format. FIG. ...

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Digital image storage method

Z Sun, AC Loui... - US Patent 6,993,196, 2006 - Google Patents

... information, con- version back to an original extended gamut color space, such as CIELAB, from a **reduced** gamut color ... can be used to make **image** files backward compatible by embedding a standard descriptions of the latest **image** file format (such as **EXIF**) in another ...

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Camera with monitor

A Misawa - US Patent 7,110,040, 2006 - Google Patents

... detachable external memory card in accordance with an exchangeable **image** file (**Exif**) format or ... the operator holds the camera 10 with the left hand, the **reduced image** is displayed ... electronic camera records the captured **image** by electronically recording the **image data** in the ...

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Method and program for producing a reduced image

K Nihei - US Patent 7,333,834, 2008 - Google Patents

... In this way, the template **image** 42 is composed on the **reduced image** 41. The **image** recording section 20 records the produced **data** of the **reduced image** as the thumbnail **image data** 35 between the **EXIF** tag **data** 34 and the **image data** 33. ...

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Digital camera

M Nikawa... - US Patent 6,794,053, 2004 - Google Patents

... For example, the aforesaid information is managed as **EXIF** type **image** files in frame ... In particular, the focal length is **reduced** because a reducing lens 302 is arranged behind the taking lens 301 a short distance from the flange back, and the CCD 303 is arranged at the ...

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Method for image data print control, electronic camera and camera system

S Ejima... - US Patent 7,286,160, 2007 - Google Patents

... 23, 2007 (54) METHOD FOR **IMAGE DATA** PRINT CONTROL, ELECTRONIC CAMERA AND CAMERA SYSTEM (75) Inventors: Satoshi Ejima, Setagaya-ku (JP); Tomoaki Kawamura, Yokohama (JP) (73) Assignee: Nikon Corporation, Tokyo (JP) (*) Notice: Subject to any ...

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Digital image storage method

Z Sun, AC Loui... - EP Patent 1,351,187, 2003 - freepatentsonline.com

... residual information, conversion back to an original extended gamut color space, such as CIELAB, from a **reduced** gamut color ... used to make **image** files backward compatible by embedding a standard descriptions of the latest **image** file format (such as **EXIF**) in another ...

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An image-centred search and indexation system based in user's data and perceived emotion

D Fonseca, O Garcia, J Duran... - Proceeding of the 3rd ..., 2006 - portal.acm.org

... **Exif** [43]: that means Exchangeable **Image** File Format, and it is a standard for storing interchange information in **image** files, especially those using ... Then their communicative capacity gets **reduced** and stopping perceiving all the subjective message of the **image**. ...

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[PDF] Image annotation with photocopain

MM Tuffield, S Harris, DP Dupplaw... - Proc. Semantic Web ..., 2006 - Citeseer

... For instance, portraits are typically taken at focal lengths of around 100mm in 35mm equiv- alent length, with wide aperture (f/4 or above), fill flash (**reduced** power), and the subject of the photo, a head/shoulders, will be of a standard ... The **EXIF image meta- data** is extracted ...

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[\[PDF\] from psu.edu](#)

Image processing method, image processing apparatus and recording medium storing program therefor

F Takemoto - US Patent 7,081,918, 2006 - Google Patents

... 30 35 40 45 In the **image** processing apparatus of the present inven- tion, it is preferable for the **image data** obtained by the digital camera to be provided to the model tone characteristic absorption means after being **reduced**. ...

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Data recording apparatus and method, data reproducing apparatus and method, data recording and reproducing apparatus and method, and map image data format

S Miyagi... - US Patent 7,184,611, 2007 - Google Patents

... 27, 2007 (54) **DATA** RECORDING APPARATUS AND METHOD, **DATA** REPRODUCING APPARATUS AND METHOD, **DATA** RECORDING AND REPRODUCING APPARATUS AND METHOD, AND MAP **IMAGE DATA** FORMAT (75) Inventors: Shiro Miyagi, Tokyo (JP); Yuuko ...

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Digital camera with preset data relating to image data

N Nishi... - US Patent 7,059,931, 2006 - Google Patents

... The file section 17 stores the compressed **image data** in a removable memory 18 such as a compact flash memory in the **Exif** file format. ... stores the main **image data** made up of the YCbCr **image data** generated in the **image** gen- eration section 14 and its **reduced image data**. ...

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EXIF reduced image data

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